

ABSTRACT OF THE DISCLOSURE

include
Systems and methods for energizing an electrical resistance igniter ~~are~~
determining ~~disclosed.~~ ~~The systems and methods determine~~ the line voltage into the
controlling ~~control~~ the voltage being applied to the electrical resistance
igniters so a first voltage is applied initially and for a time period and
thereafter a second voltage is applied, the second voltage being the operating
voltage for the igniter. The systems and methods decrease the amount of
time required to heat-up the electrical resistance igniter to a temperature
sufficient to ignite the gas while regulating the output voltage being delivered
to the igniters to prevent over voltage damage to the igniters.

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